STATEWIDE SUPPORT SYSTEM TRANSPORTATION MANAGEMENT IMPROVEMENTS

DELTRAC (FORMERLY INTEGRATED TRANSPORTATION MANAGEMENT SYSTEMS - ITMS)

PROJECT DESCRIPTION AND JUSTIFICATION: Integrated Transportation Management Systems (ITMS) are a multi-modal approach to improving the movement of people and goods. ITMS uses modern technology (often referred to as Intelligent Transportation Systems (ITS)) and a Transportation Management Center (TMC, or control room) to monitor travel and adjust signals, signage, transit, etc. to lessen congestion. Some benefits include:

- Safer Travel – New traffic control systems can reduce the number of vehicle stops, minimize changes in vehicle speeds, and improve traffic flow -- all of which help reduce the number of accidents.

- Less Traffic Congestion – ITMS reduces traffic jams and travel time by continuously monitoring current conditions and automatically adjusting traffic signals, freeway ramp access, lane use, and transit schedules in response to real - time demand. Less traffic congestion results in safer, less stressful driving conditions.

- Better Travel Information – At home, en route, or at work, travelers will have access to real-time, accurate information about transit, train, and flight schedules, roadway conditions, and other travel information via radio, kiosks, cable TV, internet access, and variable message signs on the bus or highway.

- Improved Inter-modal Coordination - With the help of better travel information, travelers can make better decisions as to mode choice. For example, if a traveler is aware that his or her regular route to work is congested, he or she may opt for taking transit that particular day. Schedule and fare information provided in real-time makes train and bus transfers more convenient. Transportation managers benefit as well, as they can maximize the system's efficiency by coordinating their activities across travel modes. For example, the TMC can provide buses traveling behind schedule with longer "green time" at signalized intersections to help them get back on schedule.

- Quicker Emergency Response – With monitoring equipment, the TMC may detect, verify, and respond more quickly to incidents on the State's transportation system. Together with its emergency response partners (i.e. Department of Public Safety, Volunteer Firemen's Association, and Department of Natural Resources and Environmental Control (DNREC)), the TMC can act to ensure that incidents are cleared more quickly, reducing congestion and increasing safety. In the future, travelers in need of aid can benefit from communication and information technology which, among other things, can automatically send "mayday signals" to dispatch centers so trained emergency staff may locate an incident more quickly. Cellular call-in programs such as #77 and motorist call boxes are also used to facilitate emergency responses.

- Reduced Costs – DelTRAC technology allows DelDOT to make more efficient use of its existing resources by automating functions, sharing real time information, and improving safety. It also helps private companies through improved freight delivery. Consumers save money through more efficient travel.

DELTRAC (FORMERLY INTEGRATED TRANSPORTATION MANAGEMENT SYSTEMS - ITMS) (CONTINUED)

Delaware's transportation system, like so many others around the nation, is experiencing a number of competing pressures and demands. DelDOT customers prefer a transportation system that supports, not impedes, their high standards for quality of life, including employment opportunities, a sense of community, quality education and the protection of its cultural and natural resources. Funding constraints and the need for transportation to become more seamless and integrated, along with the rapid development of technology to provide or enhance critical transportation improvements, have made traditional approaches to transportation awkward, difficult, costly and -- in some -- cases obsolete. Proven transportation management strategies using control, monitoring, information and communication technology can provide real solutions to these challenging problems – saving time, saving lives, and saving money.

PROJECT JUSTIFICATION: Ensure better traffic flow throughout the State.
County: Statewide
Municipality:
Funding Program: Support System – Transportation Management Systems
Functional Category: Management
Representative District: Statewide
Senatorial District: Statewide

Transportation Management Center in Smryna

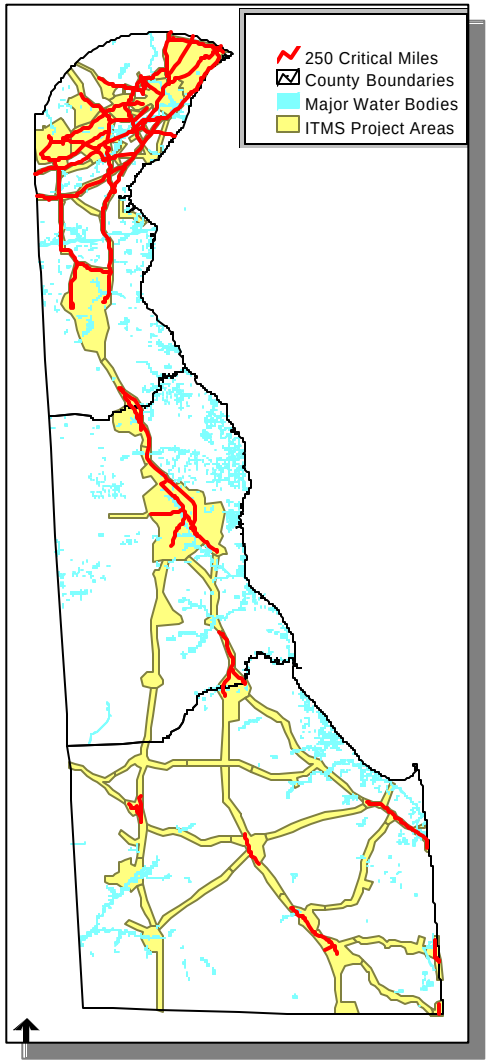
Live Traffic Photo from DelTRAC camera

DELTRAC (FORMERLY INTEGRATED TRANSPORTATION MANAGEMENT SYSTEMS - ITMS) (CONTINUED)

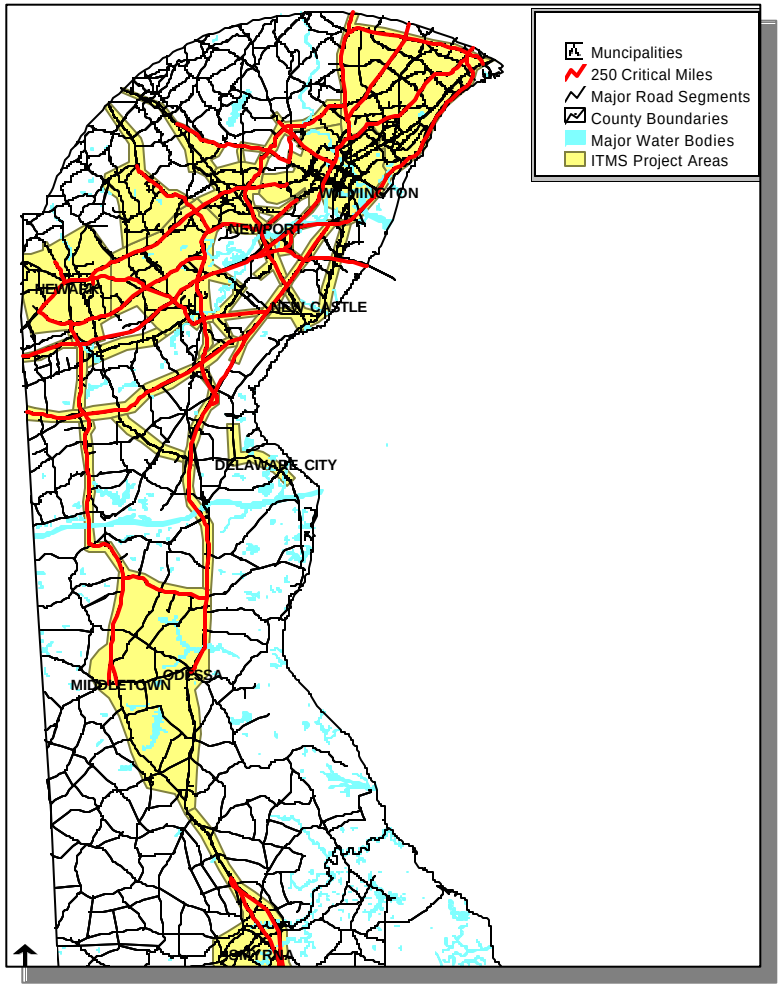
INDIVIDUAL PROJECT SEGMENTS	FUNDING	EST COST TO COMPLETE IN TODAY'S $	FY 2001 7/00-6/01 TOTAL	FY 2002 7/01-6/02 TOTAL	FY 2003 7/02-6/03 TOTAL	FY 2004 7/04-6/05 TOTAL	FY 2005-2007 7/05-6/07 TOTAL
Transportation Management Communications							
Statewide	80% F – Q40	5,550	550		550	550	3,900
New Castle County/I-95 Corridor	80% F – Q40	7,978	415	1,481	950	1,283	3,849
Kent County	80% F – Q40	4,456	515	1,100	568	568	1,704
Sussex County/Resorts Access	80% F – Q40	4,450	325	1,100	605	605	1,815
Statewide ITMS Integration	F – Q40/F – DISC/ST	3,145	3,145				
SR141 / US202 Area Improvements	80% F – Q40	400		400			
TMC Center, Smyrna	50% F – Q40	6,000	6,000				
DelDOT Radio/AVL	80% F – Q40	6,575	3,600	500	495	495	1,485
	TOTAL	38,553	14,550	4,581	3,168	3,501	12,753

All $ X 1,000

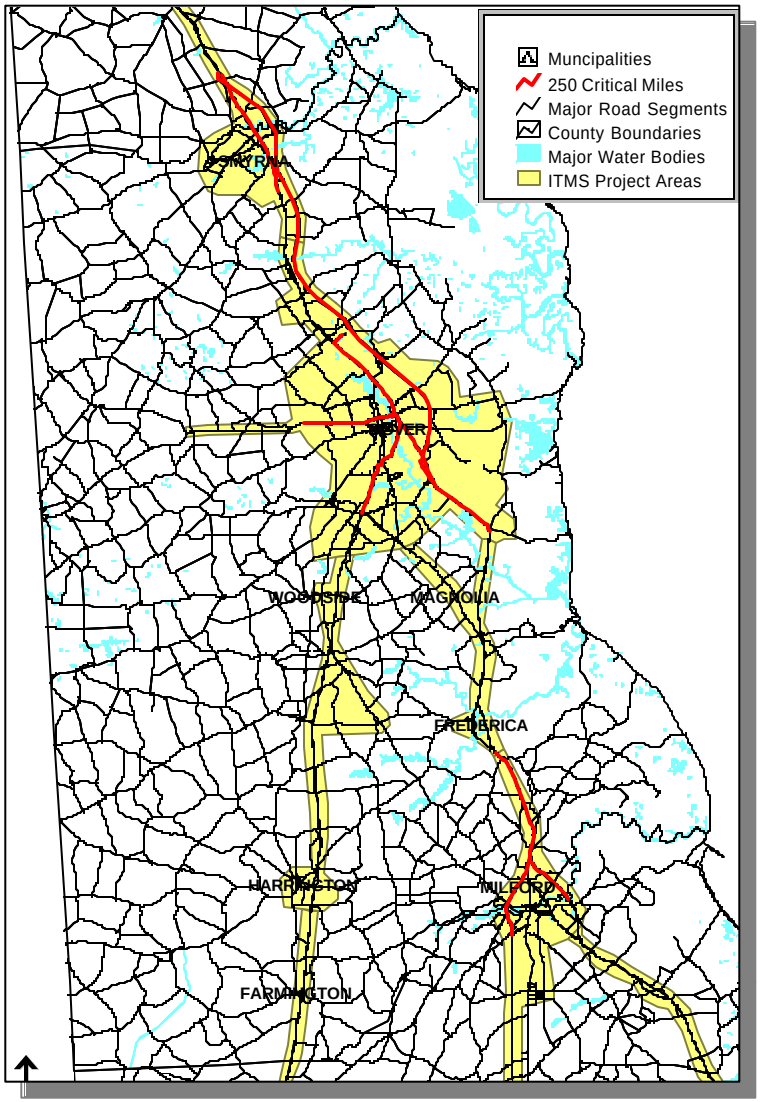
DELTRAC PROJECT AREAS



NEW CASTLE COUNTY DELTRAC



KENT COUNTY DELTRAC



SUSSEX COUNTY DELTRAC